In the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims

- 1. (original) A voltage reference generator for generating an output voltage at an output node, comprising:
 - a level shifter for shifting a first reference voltage into the output voltage at the output node according to a shift between the first reference voltage and the output voltage; and
 - a feedback circuit for monitoring the output voltage and a second reference voltage to control the shift and to normalize the output and second reference voltages.
- 2. (original) The voltage reference generator as claimed in claim 1, wherein the level shifter includes a source follower coupled between a voltage source and the output node, the source follower having an input node for receiving the first reference voltage.
- 3. (original) The voltage reference generator as claimed in claim 2, wherein the source follower has an MOS transistor having a drain connected to the voltage source, a source as the output node and a gate as the input node, and further having a current source controlled by the feedback circuit and connected to the source of the MOS transistor.
- 4. (original) The voltage reference generator as claimed in claim 3, wherein the MOS transistor is a NMOS transistor.

- 5. (original) The voltage reference generator as claimed in claim 3, wherein the MOS transistor is a PMOS transistor.
- 6. (currently amended) The voltage reference generator as claimed in claim 3, wherein the current source is an MOS transistor having a drain connected to the output node, a source connected to a ground, and a gate connected to the output of <u>a [[the]]</u> differential amplifier.
- 7. (original) The voltage reference generator as claimed in claim 3, wherein the level shifter further comprises a constant current source coupled between the output node and another voltage source.
- 8. (original) The voltage reference generator as claimed in claim 6, wherein the MOS transistor is a NMOS transistor.

9. (Canceled)

- 10. (original) The voltage reference generator as claimed in claim 1, further comprising a low-pass filter to filter out a high frequency portion of the first reference voltage and direct the first reference voltage to the level shifter.
- 11. (original) The voltage reference generator as claimed in claim 10, wherein the lowpass filter comprises at least a capacitor connecting an input node of the level shifter and a voltage source.
- 12. (original) The voltage reference generator as claimed in claim 1, wherein the feedback circuit has a differential amplifier with an inverted input, a non-inverted input and an output, the non-inverted input coupled to the output node, the inverted input coupled to the

second reference voltage, and the output coupled to a current source in the level shifter to control the shift of the level.

- 13. (original) The voltage reference generator as claimed in claim 12, wherein the feedback circuit further has a low-pass filter connected between output of the differential amplifier and current source in the level shifter.
- 14. (original) The voltage reference generator as claimed in claim 1, further comprising a voltage divider to provide the first reference voltage and a third reference voltage.